IN THE CLAIMS:

1	1.	(Original) An RF passive circuit comprising:
2		a semiconductor substrate;
3		a spiral inductor which is formed on a main surface of the semiconductor
4	substrate;	
5		a via-hole which is formed at a position adjacent to the spiral inductor by applying
6	a metal film o	on an inside wall of a hole provided through the semiconductor substrate;
7		a dielectric layer which is formed on the metal film; and
8		a wiring metal layer which is formed on the dielectric layer and holds a capacitor
9	between the	via-hole;
10		wherein one end of the spiral inductor extends to be connected with the wiring
11	metal layer.	
1	2.	(Original) The RF passive circuit of Claim 1,
2		wherein the spiral inductor has a double layer structure having an upper wiring
3	metal layer a	nd a lower wiring metal layer, where at least one of the wiring metal layers is in a
4	spiral pattern	, and where the wiring metal layers are connected to each other, with a contact hole
5	therebetween	
1	3.	(Original) An RF choke used in at least one of a matching circuit and a bias
2	feeding circu	it, both circuits being included in an RF amplifier, the RF choke comprising:
3		a semiconductor substrate where at least one of the matching circuit and the bias
4	feeding is cire	cuit incorporated;

5		a spiral inductor which is formed on a main surface of the semiconductor
6	substrate;	
7		a via-hole which is formed at a position adjacent to the spiral inductor by applying
8	a metal film o	on an inside wall of a hole provided through the semiconductor substrate;
9		a dielectric layer which is formed on the metal film; and
10		a wiring metal layer which is formed on the dielectric layer and holds a capacitor
11	between the v	ria-hole,
12		wherein one end of the spiral inductor extends to be connected with the wiring
13	metal layer.	
1	4.	(Original) An RF passive circuit comprising:
2		a semiconductor substrate;
3		a spiral inductor which is formed on a main surface of the semiconductor
4	substrate;	•
5		a via-hole which is formed at a position adjacent to the spiral inductor by applying
6	a metal film o	on an inside wall of a hole provided through the semiconductor a substrate;
7		a first wiring metal layer which is formed on a first dielectric layer and
8	equivalently f	Forms a first capacity element between the via-hole; and
9		a second wiring metal layer which is formed on the first wiring metal layer with a
10	second dielec	tric layer therebetween, and equivalently forms a second capacity element between
11	the first wirin	g metal layer,

12		wherein the via-hole and the second wiring metal layer are electrically connected
13	to be able to	hold a static capacity determined by a sum of the first capacity element and the
14	second capac	ity element,
15		and wherein one end of the spiral inductor further extends so as to be electrically
16	connected to	the first wiring metal layer.
1	5.	(Original) The RF passive circuit of Claim 4,
2		wherein the spiral inductor has a double layer structure having an upper wiring
3	metal layer a	nd a lower wiring metal layer, where at least one of the wiring metal layers is in a
4	spiral pattern	, and where the wiring metal layers are connected to each other, with a contact hole
5	therebetween	
1	6.	(Original) An RF choke used in at least one of a matching circuit and a bias
1 2		(Original) An RF choke used in at least one of a matching circuit and a bias it, both circuits being included in an RF amplifier, the RF choke comprising:
2	feeding circui	it, both circuits being included in an RF amplifier, the RF choke comprising:
2	feeding circui	it, both circuits being included in an RF amplifier, the RF choke comprising: a semiconductor substrate where at least one of the matching circuit and the bias
2 3 4	feeding circui	it, both circuits being included in an RF amplifier, the RF choke comprising: a semiconductor substrate where at least one of the matching circuit and the bias it is incorporated;
2 3 4 5	feeding circuit	it, both circuits being included in an RF amplifier, the RF choke comprising: a semiconductor substrate where at least one of the matching circuit and the bias it is incorporated;
2 3 4 5 6	feeding circuit feeding circuit substrate;	it, both circuits being included in an RF amplifier, the RF choke comprising: a semiconductor substrate where at least one of the matching circuit and the bias it is incorporated; a spiral inductor which is formed on a main surface of the semiconductor
2 3 4 5 6 7	feeding circuit feeding circuit substrate;	it, both circuits being included in an RF amplifier, the RF choke comprising: a semiconductor substrate where at least one of the matching circuit and the bias it is incorporated; a spiral inductor which is formed on a main surface of the semiconductor a via-hole which is formed at a position adjacent to the spiral inductor by applying

11	a second wiring metal layer which is formed on the first wiring metal layer with a
12	second dielectric layer therebetween, and equivalently forms a second capacity element between
13	the first wiring metal layer,
14	wherein the via-hole and the second wiring metal layer are electrically connected
15	to be able to hold a static capacity determined by a sum of the first capacity element and the
16	second capacity element,
17	and wherein one end of the spiral inductor further extends so as to be electrically
18	connected to the first wiring metal layer.
1	7-9. Cancelled.
1	10. (Original) An RF passive circuit comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	provided through the semiconductor substrate;
5	a dielectric layer which is formed on a main surface of the semiconductor
6	substrate so as to cover the metal film; and
7	an inductor which is a spirally-formed metal layer formed on the dielectric layer,
8	which forms a static capacity where one part thereof faces the metal film of the via-hole.
1	11. (Original) An RF choke used in at least one of a matching circuit and a bias
2	feeding circuit, both circuits being included in an RF amplifier, the RF choke comprising:
3	a semiconductor substrate where at least one of the matching circuit and the bias
4	feeding circuit is incorporated;

5		a via-hole which is formed by applying a metal film on an inside wall of a hole
6	provided thro	ugh the semiconductor substrate;
7		a dielectric layer which is formed on a main surface of the semiconductor
8	substrate so as	s to cover the metal film; and
9		an inductor which is a spirally-formed metal layer formed on the dielectric layer,
10	which forms a	a static capacity where one part thereof faces the metal film of the via-hole.
1	12.	(Original) An RF passive circuit comprising:
2		a semiconductor substrate;
3		a dielectric layer which is formed on a first main surface of the semiconductor
4	substrate;	
5		a via-hole which is formed by applying a metal film on an inside wall of a hole
6	provided thro	ugh a second main surface of the semiconductor substrate until the hole reaches the
7	dielectric laye	er; and
8		a metal layer formed on the dielectric layer which holds a static capacity between
9	the metal film	of the via-hole and the metal layer.
1	13.	(Original) The RF passive circuit of Claim 12, further comprising:
2		a resistance element whose one terminal is electrically connected to the metal
3	layer, and the	other terminal to the via-hole.
1	14.	(Original) An RF amplifier comprising:
2		a semiconductor substrate;
3		a dielectric layer which is formed on a first main surface of the semiconductor
4	substrate;	

5		a via-hole which is formed by applying a metal film on an inside wall of a hole
6	provided thro	ough a second main surface of the semiconductor substrate until the hole reaches the
7	dielectric laye	er;
8		a metal layer formed on the dielectric layer which holds a static capacity between
9	the metal filn	n of the via-hole and the metal layer; and
10		a field effective transistor, mounted on the semiconductor substrate, which has a
11	common gate	e circuit having a gate terminal electrically connected to the metal layer.
1	15.	(Original) An RF amplifier comprising:
2		a semiconductor substrate;
3		a dielectric layer which is formed on a first main surface of the semiconductor
4	substrate;	
5		a via-hole which is formed by applying a metal film on an inside wall of a hole
6	provided thro	ough a second main surface of the semiconductor substrate until the hole reaches the
7	dielectric laye	er;
8		a metal layer formed on the dielectric layer which holds a static capacity between
9	the metal film	n of the via-hole and the metal layer; and
10		a bipolar transistor, mounted on the semiconductor substrate, which has a
11	common base	e circuit having a base terminal electrically connected to the metal layer.
1	16.	(Original) An RF amplifier comprising:
2		a semiconductor substrate;
3		a dielectric layer which is formed on a first main surface of the semiconductor
4	substrate;	

5	a via-hole which is formed by applying a metal film on an inside wall of a hole
6	provided through a second main surface of the semiconductor substrate until the hole reaches the
7	dielectric layer;
8	a metal layer formed on the dielectric layer which holds a static capacity between
9	the metal film of the via-hole and the metal layer;
10	a resistance element whose one terminal is electrically connected to the via-hole
11	and the other terminal to the metal layer; and
12	a field effective transistor mounted on the semiconductor substrate whose source
13	terminal is connected to the other terminal of the resistance element connected to the metal layer,
14	so as to form a self bias circuit.
1	17. (Original) An RF passive circuit comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	provided through the semiconductor substrate;
5	a dielectric layer which is formed on an inside wall of the via-hole; and
6	a wiring metal layer formed on the dielectric layer, which holds a static capacity
7	between the via-hole.
1	18. (Original) The RF passive circuit of Claim 17, further comprising:
2	a resistance element whose one terminal is electrically connected to the metal film
3	of the via-hole, and the other terminal to the wiring metal layer.
1	19. (Original) An RF amplifier comprising:
2	a semiconductor substrate:

3		a via-hole which is formed by applying a metal film on an inside wall of a hole
1	provided thro	ugh the semiconductor substrate;
5	٠	a dielectric layer which is formed on an inside wall of the via-hole;
5		a wiring metal layer formed on the dielectric layer, which holds a static capacity
7	between the v	ia-hole; and
3		a field effective transistor, mounted the semiconductor substrate, which has a
)	common gate	circuit having a gate terminal electrically connected to the wiring metal layer.
l	20.	(Original) An RF amplifier comprising:
2		a semiconductor substrate;
3		a via-hole which is formed by applying a metal film on an inside wall of a hole
1	provided thro	ugh the semiconductor substrate;
5		a dielectric layer which is formed on an inside wall of the via-hole;
5		a wiring metal layer formed on the dielectric layer, which holds a static capacity
7	between the v	ia-hole; and
3		a bipolar transistor, mounted on the semiconductor substrate, which has a
)	common base	circuit having a base terminal electrically connected to the wiring metal layer.
l	21.	(Original) An RF amplifier comprising:
2		a semiconductor substrate;
3		a via-hole which is formed by applying a metal film on an inside wall of a hole
1	provided thro	ugh the semiconductor substrate;
5		a dielectric layer which is formed on an inside wall of the via-hole;

6	a wiring metal layer formed on the dielectric layer, which holds a static capacity
7	between the via-hole;
8	a resistance element whose one terminal is electrically connected to the metal film
9	of the via-hole and the other terminal to the metal layer; and
10	a field effective transistor mounted the semiconductor substrate whose source
11	terminal is connected to the other terminal of the resistance element connected to the metal layer,
12	so as to form a self bias circuit.
1	22. (Original) An RF passive circuit comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	provided through the semiconductor substrate;
5	a first dielectric layer which is formed on an inside wall of the via-hole;
6	a first wiring metal layer formed on the first dielectric layer which equivalently
7	forms a first capacity element between the via-hole;
8	a second dielectric layer which is formed on the first wiring metal layer; and
9	a second wiring metal layer formed on the second dielectric layer which
10	equivalently forms a second capacity element between the first wiring metal layer,
11	wherein the via-hole and the second wiring metal layer are electrically connected,
12	and the sum of static capacity of the first capacity element and the second capacity element are
13	held between the via-hole and the first wiring metal layer.

1	23. (Original) The RF passive circuit of Claim 22, further comprising:
2	a resistance element whose terminal is electrically connected either to the second
3	wiring metal layer or to the via-hole, and the other terminal to the first wiring metal layer.
1	24. (Original) An RF amplifier comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	provided through the semiconductor substrate;
5	a first dielectric layer which is formed on an inside wall of the via-hole;
6	a first wiring metal layer formed on the first dielectric layer which equivalently
7	forms a first capacity element between the via-hole;
8	a second dielectric layer which is formed on the first wiring metal layer;
9	a second wiring metal layer formed on the second dielectric layer which
10	equivalently forms a second capacity element between the first wiring metal layer,
11	the via-hole and the second wiring metal layer being electrically connected, and
12	the sum of static capacity of the first capacity element and the second capacity element being
13	held between the via-hole and the first wiring metal layer; and
14	a field effective transistor, mounted on the semiconductor substrate, which has a
15	common gate circuit having a gate terminal electrically connected to the first wiring metal layer.
1	25. (Original) An RF amplifier comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	through the semiconductor substrate;

5	a first dielectric layer which is formed on an inside wall of the via-hole;
6	a first wiring metal layer formed on the first dielectric layer which equivalently
7	forms a first capacity element between the via-hole;
8	a second dielectric layer which is formed on the first wiring metal layer;
9	a second wiring metal layer formed on the second dielectric layer which
10	equivalently forms a second capacity element between the first wiring metal layer,
11	the via-hole and the second wiring metal layer being electrically connected, and
12	the sum of static capacity of the first capacity element and the second capacity element being
13	held between the via-hole and the first wiring metal layer; and
14	a bipolar transistor, mounted on the semiconductor substrate, which has a
15	common base circuit having a base terminal electrically connected to the first wiring metal layer.
1	26. (Original) An RF amplifier comprising:
2	a semiconductor substrate;
3	a via-hole which is formed by applying a metal film on an inside wall of a hole
4	provided through the semiconductor substrate;
5	a first dielectric layer which is formed on an inside wall of the via-hole;
3	a first diciectife layer which is formed on an histor wan of the via-hole,
6	a first wining motal layor formed on the first disloctuic layor which assistantly
6	a first wiring metal layer formed on the first dielectric layer which equivalently
7	forms a first capacity element between the via-hole;
7 8	forms a first capacity element between the via-hole; a second dielectric layer which is formed on the first wiring metal layer;
7	forms a first capacity element between the via-hole;

the via-hole and the second wiring metal layer being electrically connected, and the sum of static capacity of the first capacity element and the second capacity element being held between the via-hole and the first wiring metal layer;

a resistance element whose one terminal is electrically connected either to the second wiring metal layer or to the via-hole, and the other terminal to the first wiring metal layer; and

a field effective transistor mounted on the semiconductor substrate whose source terminal is connected to the one terminal of the resistance element connected either to the second wiring metal layer or to the via-hole, so as to form a self bias circuit.